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REPORT OF THE PROFESSOR OF INVERTEBRATE PALÆONTOLOGY.

The Professor of Invertebrate Palæontology respectfully reports, that during the year 1881, a course of 26 lectures on Invertebrate Palæontology was delivered in the class room of the Academy (commencing on March 8, and terminating June 4), which course was attended by an average of about 25 listeners, largely made up of teachers from some of the more prominent institutions of learning in the city.

The work of classifying and arranging the old collections in the Palæontological Department of the Academy has made some progress during the year. The determination of specimens embraces:

123 trays of (so-called) Cretaceous fossils from the Téjon group of California, originally described by W. M. Gabb for the Whitney Survey, and largely composed of type specimens; these last have been specially indicated.

312 trays of Tertiary (Miocene and Pliocene) fossils, largely composed of T. A. Conrad's types.

435

The specimens contained in 263 of these trays have been carefully mounted and labeled by Mr. Chas. F. Parker, Curator-in-charge; to the remaining 172 trays, only provisional labels have been attached.

The Palæontological collections of the Academy have thus far suffered greatly from want of room for their proper exposition; something toward remedying the evil, by the construction of additional drawers, has been done in the course of the year, but much more still remains to be accomplished. It is especially desirable that a suitable cabinet, or other fixture, be obtained for the exhibition of specimens typically representing the various geological formations, which would not only greatly facilitate the work of the Professor in teaching, but would very materially aid the students, special as well as general, in their studies.

All the additions to the Palæontological collection, made in the course of the year, have been labeled and mounted by Mr. Chas. F. Parker, Curator.

The Department of the Library pertaining to Geology and Palæontology has received many valuable accessions during the year, for a considerable portion of which the Academy is indebted to the liberality of Mr. Joseph Jeanes.

ANGELO HEILPRIN,
Professor of Invertebrate Palæontology.

REPORT OF THE PROFESSOR OF MINERALOGY FOR 1881.

In submitting to you this, my first annual report upon the condition and needs of the department under my charge, allow me to express my appreciation of the assistance which has been rendered through the active co-operation of your committee on instruction, in the discharge of my duties as Professor of Mineralogy.

Under their auspices a course of practical instruction in Mineralogy was given during the months of March and April. It consisted of thirteen lectures, and was attended by a class of about 35, being as large in number as could conveniently be accommodated in the room set apart for the purpose. The course opened with a review of the history of Mineralogy and of mineralogical classification. Succeeding lectures consisted of a detailed description of the characters of minerals and an exposition of the methods used in mineralogical determination, with experiments. Specimens from the valuable collection of the Academy were used in illustration. Practical work was successfully carried on by nearly all the class. It consisted of the determination of the characters of minerals, the application of chemical tests to detect their constituents, and the performance of the various operations of blowpipe analysis. This was supplemented by a day of practical work in the field.

The summer months were employed in discovering and tracing the line across Pennsylvania of the great terminal moraine of the North American glacier; the work having been accomplished with the assistance of the Second Geological Survey of Pennsylvania, and of which a report will shortly be published.

The mineral collection of the Academy has been increased during the past year by valuable additions. The donations made